

PARVATI JAYAKUMAR

Data Scientist | Specializing in Data Analysis, ML, and Cloud-Tech across different domains

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Bengaluru, India

in parvati-jayakumar

parvatijay2901

SKILLS

Python R SQL MATLAB Power BI
Tableau MySQL PostgreSQL MongoDB
Git Streamlit Docker Microsoft Fabric
Azure (Data Warehousing, Machine Learning)
AWS Statistics Agile Methodology

Creative Thinking Adaptability Team work
Time management Communication

EDUCATION

Master of Science (Data Science)

University of Washington (GPA: 3.94/4)

2023 - 2025

Seattle, WA, USA

Bachelor of Technology (ECE)

IIIT, Dharwad (GPA: 9.4/10)

2018 - 2022

Karnataka, India

SKILL BUILDING

Machine Learning Nanodegree

Udacity (Sponsored by Microsoft)

Jul 2020 - Jan 2021 Remote

Selected as one of 300 participants from over 36,500 applicants; hosted webinars and AMAs, published a technical magazine, and developed ML projects within the community.

ACHIEVEMENTS

- President of India Gold Medal and Department Gold Medal for Academic Excellence (BTech, IIIT Dharwad)
- Publications:
 - TENCON 2022 - IEEE Region 10 Conference: Contributed to developing a Hindi Spoken Conversational System (Automatic Speech Recognition (ASR) and Text To Speech (TTS)), to humanize robotic interactions.
 - BSN 2023 and arXiv: Researched acoustic-based non-intrusive gait analysis for older adults, including developing a filter for robust detection in noisy indoor settings.
 - 2 in progress (MS, UW): Collaborated on a capstone project investigating Ventilator-Associated Pneumonia (VAP) pathogen-specific biomarker signatures and subphenotypes to improve clinical outcomes.

EXPERIENCE

Graduate Research Assistant

UW Scientific Software Engineering Center, eScience Institute

Sep 2024 - Jun 2025

Seattle, WA, US

- Integrated DeepEval into the **OLMo2** Retrieval-Augmented Generation (RAG) pipeline, achieving a test score rating of **8.3/10**, ensuring reliability of search results in support of Vera C. Rubin Observatory research.
- Engineered a fully automated financial disclosure system using **Apps Script** and **Power Automate**, processing 100% of disclosures within 24 hours of opening for the UW Office of Research team.
- Pioneered the user interface development of a **Flutter app** for the Post-Disaster Communications project, enabling field teams to achieve faster data transmission speeds during emergencies.

Data Science Intern

Pearson Packaging Systems

Jun 2024 - Sep 2024

Spokane, WA, US

- Engineered a Power BI dashboard for the Inventory Department that enabled reporting; helped in improving on-time delivery rates to **95%** and cut material costs by **50%**.
- Spearheaded the **Data Warehouse** pilot project, establishing a functional instance and creating a detailed **Microsoft Fabric** implementation plan that aims to reduce potential deployment delays by **25%**.

Graduate Research Assistant

UW School of Medicine - Department of Otolaryngology-HNS

Feb 2024 - Sep 2024

Seattle, WA, US

- Explored auditory perception across ages (infants/children) and environments using EEG, experimental design, and advanced MATLAB-based mTRF analyses for encoding/decoding, aiming to improve human communication understanding.

Clinical Data Scientist (R&D)

MiiCare

Nov 2021 - Jun 2023

Remote (London, UK)

- Developed and maintained streamlined reports on **health data** for **300+** seniors and disabled individuals, enabling rapid, data-driven assessments for early detection of critical mental and physical health concerns.
- Led the development of MiiVoice, a voice-based mental health prediction system using **speech processing** and contributed to **NLP projects**, increasing customer engagement by **29%** (2021 Dec - 2023 Jun).
- Developed a ML model to classify **Acoustic Gait patterns** using footstep sounds and achieved $\leq 0.71\%$ relative error compared to IMU (Inertial Measurement Unit) and video-based systems (tested on 10 users).

Summer Intern

Indian Institute of Science (IISc)

May 2019 - Jul 2019

Bengaluru, India

- Contributed to a facial recognition project, implementing a Facenet model in PyTorch, at the Department of Aerospace Engineering.